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         JUL 02
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                 STN AnaVist, Version 2.0, now available with Derwent
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         SEP 17
                 CAplus coverage extended to include traditional medicine
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                 CA/CAplus enhanced with pre-1907 records from Chemisches
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         OCT 19
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NEWS EXPRESS
              19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(jp),
              AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.
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L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 16:35:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3547 TO ITERATE

56.4% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

67368 TO 74512

PROJECTED ANSWERS:

1 TO 114

L2

1 SEA SSS SAM L1

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FULL SEARCH INITIATED 16:35:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 70912 TO ITERATE

100.0% PROCESSED 70912 ITERATIONS

93 ANSWERS

SEARCH TIME: 00.00.01

L3

93 SEA SSS FUL L1

=> file caplus

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SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

172.10 176.48

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L4

7 L3

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L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

AB Title compds. I [wherein R1, R2 = independently OH, (cyclo)alkoxy or (fluoro)alkoxy; R3, R31 = H or alkyl; R4 = H or alkyl; R5 = R51 = H; R6 = H, halo, alkyl or alkoxy; R7 = (un)substituted NH2; or their salts and the N-oxides, and the salts of the N-oxides thereof] were prepared, such as II, as PDE4 inhibitors. Selected prepared I showed inhibition of PDE4 with pIC50 values of 7.36 - 9.33. Therefore, I and pharmaceutical compns. thereof are useful for treating PDE-mediated disorders, such as respiratory diseases.

AN 2006:945476 CAPLUS

DN 145:335953

TI Preparation of amido-substituted 6-phenylphenanthridines as PDE4 inhibitors

IN Kautz, Ulrich; Schmidt, Beate; Flockerzi, Dieter; Chiesa, Maria Vittoria;
Hatzelmann, Armin; Zitt, Christof; Barsig, Johannes; Marx, Degenhard;
Kley, Hans-Peter

PA Altana Pharma AG, Germany

SO PCT Int. Appl., 68pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

FAN.																		
	PATENT NO.					0	DATE		APPLICATION NO.						DATE			
ΡI	WO 2006095009			A1		20060914		WO 2006-EP60595					20060309					
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		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,	
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OS MARPAT 145:335953

IT 909778-53-6P 909778-57-0P 909778-59-2P 909778-61-6P 909778-63-8P 909778-69-4P

909778-70-7P 909778-71-8P 909778-72-9P 909778-73-0P 909778-74-1P 909778-75-2P 909778-76-3P 909778-77-4P 909778-79-6P 909778-82-1P 909778-83-2P 909778-85-4P 909778-90-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amido-substituted 6-phenylphenanthridines as PDE4 inhibitors)

RN 909778-53-6 CAPLUS

CN Glycine, N-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]-, methyl ester (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-57-0 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[1-(methoxymethyl)propyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-59-2 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-

phenanthridinyl]-N-(2-methoxyethyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-61-6 CAPLUS

CN Benzamide, N-(2,2-diethoxyethyl)-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-63-8 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(3-hydroxypropyl)- (CA INDEX NAME)

RN 909778-69-4 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(4-methyl-1-piperazinyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-70-7 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-4-morpholinyl- (CA INDEX NAME)

RN 909778-71-8 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(4-morpholinyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-72-9 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide (CA INDEX NAME)

RN 909778-73-0 CAPLUS

CN Benzeneacetic acid, 3,4-dimethoxy-, 2-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-74-1 CAPLUS

CN 4-Morpholinecarboxylic acid, 2-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide (CA INDEX NAME)

RN 909778-75-2 CAPLUS

CN Benzoic acid, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-, 2-[4-(aminosulfonyl)phenyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-76-3 CAPLUS

CN 2-Pyridinecarboxylic acid, 2-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide (CA INDEX NAME)

RN 909778-77-4 CAPLUS

CN 2-Piperazinecarboxylic acid, 1,4-dimethyl-, 2-[4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-79-6 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]- (CA INDEX NAME)

RN 909778-82-1 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-83-2 CAPLUS

CN Glycine, N-[4-[(4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]benzoyl]-, methyl ester (CA INDEX NAME)

RN 909778-85-4 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-[2-(3-pyridinyl)ethyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 909778-90-1 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(4-methyl-1-piperazinyl)ethyl]- (CA INDEX NAME)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

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AB Title compds. I [wherein R1, R2 = OH or (cyclo)alkoxy; R3, R31 = H or alkyl; R4 = OH, alkoxy or alkylcarbonyloxy; R5 = H or alkyl; R6 = H, halo, alkyl or alkoxy; R7 = (un)substituted NH2; etc., or their salts and the N-oxides, and the salts of the N-oxides] were prepared as PDE4 inhibitors. For instance, II (R = OH) was synthesized by hydrolysis of its ester II (R = OAc) with Cs2CO3 in methanol. Representative I, including II (R = OH), were found to inhibit PDE4B2 with pIC50 values of 6.42 - 9.02. Therefore, I and pharmaceutical compns. thereof are useful for treating PDE-mediated

disorders, such as respiratory diseases.

ΑN 2005:1026938 CAPLUS DN 143:326233 Preparation of amido-substituted phenylphenanthridines as PDE4 inhibitors TI for the treatment of respiratory diseases Schmidt, Beate; Kautz, Ulrich IN PA Altana Pharma A.-G., Germany PCT Int. Appl., 107 pp. SO CODEN: PIXXD2 DT Patent LA English FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ______ --------------WO 2005-EP51054 PΙ WO 2005087745 A1 20050922 20050309 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 AU 2005221832 A1 20050309 20050922 AU 2005-221832 EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309 CA 2558391 A1 20050922 CA 2005-2558391 20050309 EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309 EP 1725534 20061129 A1 EP 2005-740073 20050309 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309 CN 1926113 Α 20070307 CN 2005-80006855 20050309 EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309 BR 2005008481 Α 20070731 BR 2005-8481 20050309 EP 2004-100990 A 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309 JP 2007527901 Т 20071004 JP 2007-502343 20050309 EP 2004-100990 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 20050309 US 2007185149 A1 20070809 US 2006-591480 20060927 EP 2004-100990 Α 20040310 EP 2004-106677 A 20041217 WO 2005-EP51054 W 20050309

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     865307-34-2P 865307-35-3P 865307-37-5P
     865307-38-6P
     RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
     preparation); THU (Therapeutic use); BIOL (Biological study); PREP
     (Preparation); RACT (Reactant or reagent); USES (Uses)
        (inhibitor; preparation of amido-substituted phenylphenanthridines as PDE4
        inhibitors for the treatment of respiratory diseases)
RN
     865306-83-8 CAPLUS
CN
     Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-
     dimethoxy-6-phenanthridinyl]-N-[2-(4-morpholinyl)ethyl]-, rel- (CA INDEX
     NAME)
```

Relative stereochemistry.

RN 865306-84-9 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-4-morpholinyl-, rel- (CA INDEX NAME)

RN 865306-86-1 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-87-2 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(4-methyl-1-piperazinyl)-, rel- (CA INDEX NAME)

RN 865306-88-3 CAPLUS

CN Benzoic acid, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-, 2-[3-(aminosulfonyl)phenyl]hydrazide, rel-(CA INDEX NAME)

Relative stereochemistry.

RN 865306-90-7 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-3-quinolinyl-, rel- (CA INDEX NAME)

RN 865306-91-8 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(2-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-93-0 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(2,3-dimethylimidazo[1,2-a]pyridin-7-yl)-, rel- (CA INDEX NAME)

RN 865306-95-2 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-cyclopropyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-98-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-[4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide, rel- (CA INDEX NAME)

RN 865306-99-6 CAPLUS

CN L-Aspartic acid, N-[4-[2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-00-2 CAPLUS

CN 4-Pyridinecarboxylic acid, 2-[4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide, rel- (CA INDEX NAME)

RN 865307-01-3 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-1,7-naphthyridin-8-yl-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865307-08-0 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(4-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

05/11/2007

RN 865307-09-1 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(3-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865307-10-4 CAPLUS

CN 4-Morpholinecarboxylic acid, 2-[4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865307-11-5 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(2,6-dimethoxy-3-pyridinyl)-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865307-13-7 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-9-(difluoromethoxy)1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclopropyl-, rel(CA INDEX NAME)

RN 865307-15-9 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-[2-(4-morpholinyl)ethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865307-16-0 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]-, rel- (CA INDEX NAME)

RN 865307-33-1 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(3S,4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-3-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-34-2 CAPLUS

CN Benzamide, 3-[(2R,4aR,10bR)-2-(acetyloxy)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclopropyl- (CA INDEX NAME)

RN 865307-35-3 CAPLUS

CN Benzamide, 3-[(2R,4aR,10bR)-2-(acetyloxy)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclobutyl- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-37-5 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclopropyl- (CA INDEX NAME)

RN 865307-38-6 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclobutyl- (CA INDEX NAME)

Absolute stereochemistry.

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TT
     865306-47-4P 865306-48-5P 865306-49-6P
     865306-50-9P 865306-52-1P 865306-53-2P
     865306-57-6P 865306-66-7P 865306-67-8P
     865306-68-9P 865306-69-0P 865306-71-4P
     865306-73-6P 865306-74-7P 865307-23-9P
     865307-24-0P 865307-25-1P 865307-26-2P
     865307-27-3P 865307-28-4P 865307-30-8P
     865307-31-9P 865307-40-0P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (inhibitor; preparation of amido-substituted phenylphenanthridines as PDE4
        inhibitors for the treatment of respiratory diseases)
RN
     865306-47-4 CAPLUS
CN
     Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-
     dimethoxy-6-phenanthridinyl]-N-[2-(4-morpholinyl)ethyl]-, rel- (CA INDEX
     NAME)
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RN 865306-48-5 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-49-6 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-(4-methyl-1-piperazinyl)-, rel- (CA INDEX NAME)

RN 865306-50-9 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-4-morpholinyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-52-1 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-3-quinolinyl-, rel- (CA INDEX NAME)

RN 865306-53-2 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(2-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-57-6 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME)

RN 865306-66-7 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(4-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-67-8 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-N-[2-(3-pyridinyl)ethyl]-, rel- (CA INDEX NAME)

RN 865306-68-9 CAPLUS

CN 4-Morpholinecarboxylic acid, 2-[4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]benzoyl]hydrazide, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 865306-69-0 CAPLUS

CN Benzamide, N-(2,6-dimethoxy-3-pyridinyl)-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME)

RN 865306-71-4 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]-, rel-(CA INDEX NAME)

Relative stereochemistry.

RN 865306-73-6 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2hydroxy-8-methoxy-6-phenanthridinyl]-N-[2-(4-morpholinyl)ethyl]-, rel-(CA INDEX NAME)

RN 865306-74-7 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]-N-[3-(4-morpholinyl)propyl]-, rel-(CA INDEX NAME)

Relative stereochemistry.

RN 865307-23-9 CAPLUS

CN Benzamide, N-(2,6-dimethoxy-3-pyridinyl)-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 865307-24-0 CAPLUS

CN Benzamide, N-(2,6-dimethoxy-3-pyridinyl)-4-[(2S,4aS,10bS)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-25-1 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(2R,4aR,10bR)-9-(difluoromethoxy)1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA
INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 865307-26-2 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(2S,4aS,10bS)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-27-3 CAPLUS

CN Benzamide, N-cyclopropyl-4-[(2R,4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

RN 865307-28-4 CAPLUS

CN Benzamide, N-cyclobutyl-4-[(2R,4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-30-8 CAPLUS

CN Benzamide, N-cyclopropyl-3-[(2R,4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

RN 865307-31-9 CAPLUS

CN Benzamide, N-cyclobutyl-3-[(2R,4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 865307-40-0 CAPLUS

CN Benzamide, 4-[(3S,4aR,10bR)-3-(acetyloxy)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-cyclopropyl- (CA INDEX NAME)

05/11/2007 Page 41

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 3 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN L4GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [R1 = OH, alkoxy, cycloalkoxy, etc.; R2 = OH, AB cycloalkylmethoxy, cycloalkoxy, etc. or R1 and R2 together form alkylenedioxy group; R3 = H or alkyl; R4 = OR9 and R5 = H or alkyl or R4 = H or alkyl and R5 = OR9; R6 = H or alkyl; R7 = (un)substituted guanidinyl; R8 = H, halo, nitro, etc.; R9 = H, alkyl, alkoxyalkyl, etc.] and their pharmaceutically acceptable salts, are prepared and disclosed as phosphodiesterase 4 (PDE4) inhibitors. Thus, e.g., II was prepared by coupling of 4-((2RS,4aRS,10bRS)-2-acetoxy-8,9-dimethoxy-1,2,3,4,4a,10bhexahydro-phenanthridin-6-yl)-benzoic acid with the resp. guanidinyl derivative followed by hydrolysis. The activity of I was evaluated using scintillation proximity assays and it was revealed that selected compds. of the invention displayed -log IC50 values higher than 7.5. I as inhibitor of PDE4 should provide useful in the treatment of respiratory disorders. Pharmaceutical compns. comprising I are disclosed.

2005:902858 CAPLUS AN

DN 143:248297

TI Preparation of quanidinyl hydroxyphenylphenanthridines as PDE4 inhibitors

Schmidt, Beate; Flockerzi, Dieter; Hatzelmann, Armin; Zitt, Christof; Barsig, Johannes; Marx, Degenhard; Kley, Hans-Peter; Kautz, Ulrich

Altana Pharma A.-G., Germany PA

PCT Int. Appl., 72 pp. SO

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1 PATENT NO.							KIND DATE				APPL	ICAT		DATE				
ΡI	WO 2005077906				A1 20050825					 WO 2	005-1	EP50'	20050217					
		W: RW:	CN, GE, LK, NO, TJ, BW, AZ,	CO, GH, LR, NZ, TM, GH, BY,	CR, GM, LS, OM, TN, GM, KG,	CU, HR, LT, PG, TR, KE, KZ,	CZ, HU, LU, PH, TT, LS, MD,	DE, ID, LV, PL, TZ, MW, RU,	DK, IL, MA, PT, UA, MZ, TJ,	BA, DM, IN, MD, RO, UG, NA, TM,	BB, DZ, IS, MG, RU, US, SD, AT,	BG, EC, JP, MK, SC, UZ, SL, BE,	BR, EE, KE, MN, SD, VC, SZ, BG,	BW, EG, KG, MW, SE, VN, TZ, CH,	ES, KP, MX, SG, YU, UG, CY,	FI, KR, MZ, SK, ZA, ZM, CZ,	CA, GB, KZ, NA, SL, ZM, ZW, DE,	GD, LC, NI, SY, ZW AM, DK,
			RO,	SE,	SI,		TR,			CF,	CG,	CI,	CM,	GA,	GN,	GQ,	PL, GW,	ML,
	AU 2005212857				A1		2005	0825	•	AU 2 EP 2	004-1 005-1 004-1 005-1	2128! 3592	57	A 20040218 20050217 A 20040218 W 20050217				
	CA	CA 2556086				Al		2005	0825		CA 2 EP 2	005-: 004-:	2556 3592	20050217 20050217 A 20040218 W 20050217				
	EP	.1720 R:				A1 CH,		2006 CZ,			EP 2	005-	7080	38		2	0050: HU,	217

IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU

				EP	2004-3592	Α	20040218
				WO	2005-EP50708	W	20050217
JP	2007523130	T	20070816	JР	2006-553593		20050217
				ΕP	2004-3592	Α	20040218
				WO	2005-EP50708	W	20050217
US	2007167482	A1	20070719	US	2006-589082		20060905
				ΕP	2004-3592	Α	20040218
				WΩ	2005-FD50708	TAT	20050217

OS MARPAT 143:248297

IT 862993-72-4P 862993-73-5P 862993-74-6P 862993-75-7P 862993-76-8P 862993-77-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of guanidinyl hydroxyphenylphenanthridines as PDE4 inhibitors) RN 862993-72-4 CAPLUS

CN Benzamide, N-[(diethylamino)iminomethyl]-4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

$$F_2CH$$

OMe

HO

R

R

R

N

NEt 2

RN 862993-73-5 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]-N-[(hexahydro-1(2H)-azocinyl)iminomethyl]-, rel- (CA INDEX NAME)

RN 862993-74-6 CAPLUS

CN Benzamide, N-[(cyclopropylamino)iminomethyl]-4-[(2R,4aR,10bR)-9-(difluoromethoxy)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8-methoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 862993-75-7 CAPLUS

CN Benzamide, N-[(4-acetyl-1-piperazinyl)iminomethyl]-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-, rel-(CA INDEX NAME)

RN 862993-76-8 CAPLUS

CN Benzamide, N-[(diethylamino)iminomethyl]-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME).

Relative stereochemistry.

RN 862993-77-9 CAPLUS

CN Benzamide, N-[(hexahydro-1(2H)-azocinyl)iminomethyl]-4-[(2R,4aR,10bR)-1,2,3,4,4a,10b-hexahydro-2-hydroxy-8,9-dimethoxy-6-phenanthridinyl]-, rel-(CA INDEX NAME)

IT 862993-78-0P 862993-79-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of guanidinyl hydroxyphenylphenanthridines as PDE4 inhibitors)

RN 862993-78-0 CAPLUS

CN Benzamide, 4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[(4-acetyl-1-piperazinyl)iminomethyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 862993-79-1 CAPLUS

CN Carbamimidothioic acid, [4-[(2R,4aR,10bR)-2-(acetyloxy)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]benzoyl]-, methyl ester, rel-(9CI) (CA INDEX NAME)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

The title compds. [I; R1, R2 = H0, C1-4 alkoxy, C3-7 cycloalkoxy, C3-7 cycloalkylmethoxy or completely or predominantly fluorine-substituted C1-4 alkoxy; or R1 and R2 together are a C1-2 alkylenedioxy group; R3, R31 = H, C1-4 alkyl; or R3 and R31 together are a C1-4 alkylene group; R4 = H, C1-4 alkyl and R51 = H; or R5 and R51 together represent an addnl. bond; R6 = H, halogen, nitro, C1-4 alkyl, CF3, C1-4 alkoxy; R7 = (un)substituted guanidino, heterocyclylamino, 1-heterocyclyl-1-(imino)methyl, etc.] or salts thereof, as well as N-oxides, enantiomers, E/Z isomers, or tautomers thereof and their salts are prepared. These compds. I are useful for producing pharmaceutical compns. for treating respiratory disorders and/or dermatoses. Also disclosed is a method for treating an illness treatable by administration of a PDE4 inhibitor in a patient comprising administering to said patient in need thereof a therapeutically effective amount of a compound of formula I, in particular airway disorders.

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N'-[1-[4-[(4aR,10bR)-8,9-Dimethoxy-1,2,3,4,4a,10b-hexahydrophenanthridin-6-
     yl]phenyl]methanoyl]-N,N-diethylguanidine. Thus, 4.9 g
     1,1-diethylguanidinium sulfate was suspended in 120 mL MeCN, treated with
     720 mg NaOH in 25 mL MeOH, and stirred at room temperature for 1 h. The
solvent
     was evaporated and the residue was suspended in 200 mL CH2Cl2, treated with
     5.2 g Na2CO3 and then dropwise with a solution of 4.2 g 4-[(4aR,10bR)-8,9-
     dimethoxy-1,2,3,4,4a,10b-hexahydrophenanthridin-6-yl]benzoyl chloride
     hydrochloride in 200 mL CH2Cl2 dropwise, and stirred at room temperature for 15
     h to give, after workup and silica gel chromatog., N'-[1-[4-[(4aR,10bR)-
     8,9-Dimethoxy-1,2,3,4,4a,10b-hexahydrophenanthridin-6-yl]phenyl]methanoyl]-
     N, N-diethylguanidine (II). 12 Compds. I including II showed -logIC50
     (mol/L) of >8 against phosphodiesterase 4.
AN
     2004:182846 CAPLUS
DN
     140:235725
     Preparation of 6-phenylphenanthridine derivatives as phosphodiesterase 4
     (PDE4) inhibitors
     Kley, Hans-Peter; Hatzelmann, Armin; Barsig, Johannes; Marx, Degenhard;
IN
     Flockerzi, Dieter; Schmidt, Beate; Weinbrenner, Steffen
     Altana Pharma A.-G., Germany
PA
SO
     PCT Int. Appl., 49 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
    English
FAN.CNT 1
     PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
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PΙ
    WO 2004018431
                         A2
                               20040304
                                           WO 2003-EP8967
                                                                  20030813
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                         A3 .
                               20040422
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                                                                  20030813
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                                                              W 20030813
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                               20060601
                                           US 2005-524634
                                                                  20050216
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                                           WO 2003-EP8967
                                                              W 20030813
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    MARPAT 140:235725
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     667422-55-1P 667422-56-2P 667422-57-3P
     667422-58-4P 667422-59-5P 667422-60-8P
     667422-61-9P 667422-62-0P 667422-63-1P
     667422-64-2P 667422-65-3P 667422-66-4P
     667422-67-5P
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of phenylphenanthridine derivs. as phosphodiesterase 4 (PDE4) inhibitors for treating respiratory disorders and/or dermatoses dermatosis)

RN 667422-55-1 CAPLUS

CN Benzamide, N-[(diethylamino)iminomethyl]-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-56-2 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-1H-imidazol-2-yl- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-57-3 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(imino-4-morpholinylmethyl)- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-58-4 CAPLUS

CN Benzamide, N-[(dimethylamino)iminomethyl]-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-59-5 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[imino(4-methyl-1-piperazinyl)methyl]- (CA INDEX NAME)

RN 667422-60-8 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-1H-1,2,4-triazol-3-yl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-61-9 CAPLUS

CN Benzamide, N-[amino(1H-benzimidazol-2-ylamino)methylene]-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (9CI) (CA INDEX NAME)

RN 667422-62-0 CAPLUS

CN Benzamide, N-[(3,4-dihydro-2(1H)-isoquinolinyl)iminomethyl]-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-63-1 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(imino-1-pyrrolidinylmethyl)- (CA INDEX NAME)

RN 667422-64-2 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-[imino(phenylamino)methyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-65-3 CAPLUS

CN Benzamide, N-[(3,5-dimethyl-1H-pyrazol-1-yl)iminomethyl]-4-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

RN 667422-66-4 CAPLUS

CN Benzamide, N-[(diethylamino)iminomethyl]-3-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]- (CA INDEX NAME)

Absolute stereochemistry.

RN 667422-67-5 CAPLUS

CN Benzamide, 3-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(imino-4-morpholinylmethyl)- (CA INDEX NAME)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

$$R^{3}$$
 R^{4}
 R^{4}
 R^{2}
 R^{3}
 R^{4}
 R^{3}
 R^{4}
 R^{3}

Title compds. [I; R = C6H4R6; R1,R2 = OH, (fluoro)alkoxy, cycloalkyl(meth)oxy; R1R2 = OCH2O or OCH2CH2O; R3,R4,R31 = H or alkyl; R3R31 = alkylene; R6 = CO2NR7R8 or CONR9R10; R7 = H, (cyclo)alkyl, (un)substituted Ph, etc.; R8 = (cyclo)alkyl, (un)substituted Ph, etc.; R9 = H or alkyl; R10 = (un)substituted pyridyl or -Ph; dashed line = optional addnl. bond] were prepared Thus, 3,4-(MeO)2C6H3CHO was condensed with MeNO2 and the nitrostyrene product cyclocondensed with CH2:CHCH:CH2 to give, in 4 addnl. steps, (-)-cis-2-(3,4-dimethoxyphenyl)cyclohexanamine which was N-acylated by 4-(MeO)C6H4NHCOC6H4(COCl)-3 to give (-)-cis-I [R = C6H4[CONHC6H4(OMe)-4]-3, R1 = R2 = OMe, R3 = R4 = R31 = H] as the N-oxide (II). Data for biol. activity of II were given.

AN 2000:493521 CAPLUS

DN 133:120241

TI Preparation of phenanthridine N-oxides as PDE-IV inhibitors

IN Flockerzi, Dieter; Amschler, Hermann; Hatzelmann, Armin; Bundschuh, Daniela; Beume, Rolf; Boss, Hildegard; Kley, Hans-Peter; Gutterer, Beate

PA Byk Gulden Lomberg Chemische Fabrik G.m.b.H., Germany

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN CNT 1

FAN.	CNT	1																	
	PA	TENT	NO.			KIN	DATE		2	APPL	ICAT	ION I	DATE						
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05/11/2007 Page 55

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OS MARPAT 133:120241

IT 284465-36-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of phenanthridine N-oxides as PDE-IV inhibitors)

RN 284465-36-7 CAPLUS

CN Benzamide, 3-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-5-oxido-6-phenanthridinyl]-N-(4-methoxyphenyl)-, rel-(-)- (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

IT 284465-37-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of phenanthridine N-oxides as PDE-IV inhibitors)

RN 284465-37-8 CAPLUS

CN Benzamide, 3-[(4aR,10bR)-1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl]-N-(4-methoxyphenyl)-, rel-(-)- (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

Ι

Title compds. [I; R = ZSO2NR'R8 or ZCONR9R10; R1,R2 = OH, (fluoro)alkoxy, cycloalkyl(meth)oxy; R1R2 = alkylenedioxy; R3,R4,R7 = H or alkyl; R5,R6 = H; R5R6 = bond; R',R8 = H, alkyl, cycloalkyl(methyl), (un)substituted Ph; R9 = H or alkyl; R10 = (un)substituted Ph or -pyridyl; Z = phenylene] were prepared Thus, cis-2-(3-ethoxy-4-methoxyphenyl)cyclohexylamine (preparation given) was amidated by 4-(H2NO2S)C6H4COCl to give, after cyclization, I [R = C6H4(SO2NH2)-4, R1 = OMe, R2 = OEt, R3-R7 = H]. Data for biol. activity of the prepared I were given.

AN 1999:96219 CAPLUS

DN 130:153582

TI Preparation of hexahydrophenanthridine-6-ylbenzenesulfonamides and analogs as phosphodiesterase 4 inhibitors

IN Amschler, Hermann; Flockerzi, Dieter; Ulrich, Wolf-Rudiger; Bar, Thomas;
Martin, Thomas; Schudt, Christian; Hatzelmann, Armin; Beume, Rolf; Hafner,
Dietrich; Boss, Hildegard; Kley, Hans-peter; Gutterer, Beate

PA Byk Gulden Lomberg Chemische Fabrik G.m.b.H., Germany

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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OS MARPAT 130:153582

IT 220167-05-5P 220167-09-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

⁽preparation of hexahydrophenanthridine-6-ylbenzenesulfonamides and analogs as phosphodiesterase 4 inhibitors)

RN 220167-05-5 CAPLUS

CN Benzamide, 4-[(4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-N-3-pyridinyl-, rel- (CA INDEX NAME)

Relative stereochemistry.

RN 220167-09-9 CAPLUS

CN Benzamide, N-(4-cyanophenyl)-4-[(4aR,10bR)-9-ethoxy-1,2,3,4,4a,10b-hexahydro-8-methoxy-6-phenanthridinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS REGORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN GI

AB Title compds. [I; R1, R2 = OH, alkoxy, cycloalkoxy, cycloalkylmethoxy, fluoroalkoxy; R1R2 = alkylenedioxy; R3, R31 = H, alkyl; R3R31 = alkylene; R4 = H, alkyl; R5, R51 = H; R5R51 = bond; R6 = (modified) carboxyphenyl], were prepared for treatment of airway diseases. Thus, cis-N-[2-(3,4-dimethoxyphenyl)cyclohexyl]-4-methoxycarbonylbenzamide (preparation given) was stirred 8 h at 50° with POCl3 in MeCN to give 38.6% cis-8,9-dimethoxy-6-[4-(methoxycarbonyl)phenyl]-1,2,3,4,4a,10b-hexahydrophenanthridine. The latter inhibited phosphodiesterase IV with -log IC50 = 7.39.

AN 1997:533622 CAPLUS

DN 127:205483

TI Preparation of carboxyphenylhexahydrophenanthridines as phosphodiesterase IV inhibitors.

IN Amschler, Hermann; Flockerzi, Dieter; Ulrich, Wolf-Rudiger; Bar, Thomas; Martin, Thomas; Schudt, Christian; Hatzelmann, Armin; Beume, Rolf; Hafner, Dietrich; Boss, Hildegard; Kley, Hans-Peter; Goebel, Karl-Josef; Gutterer, Beate

PA BYK Gulden Lomberg Chemische Fabrik G.m.b.H., Germany; Gutterer, Beate SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND DATE	APPLICATION NO.	DATE					
ΡI	WO 9728131	Δ1 19970907	WO 1997-EP402	19970130					
			CZ, EE, GE, HU, IL,						
			SI, SK, TR, UA, US,	VN, AM, AZ, BI,					
		MD, RU, TJ, TM							
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			DE 1996-19603321						
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			WO 1997-EP402	W 19970130					
	AU 9717199	A 19970822	AU 1997-17199	19970130					
	AU 707058	B2 19990701							
			DE 1996-19603321	A 19960131					
			EP 1996-101791	A 19960208					
			WO 1997-EP402						
	EP 882021	A1 19981209	EP 1997-904354						
	EP 882021	B1 20030305	E1 133, 301331	13370130					
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of carboxyphenylhexahydrophenanthridines as phosphodiesterase IV inhibitors)

RN 194735-32-5 CAPLUS

CN Benzamide, 4-(1,2,3,4,4a,10b-hexahydro-8,9-dimethoxy-6-phenanthridinyl)-N-methyl-, cis- (9CI) (CA INDEX NAME)